



Qal	Alluvium (Holocene) —Poorly sorted deposits of clay, silt, sand, and gravel along stream courses.
Qcl	Colluvium (Holocene) —Boulders, gravel, sand, and mud in landslide deposits, Torera blocks, and eolian sand and silt; thickness 0–100 ft or more
Jn	Navajo Sandstone (Lower Jurassic) —Light-gray to light-orange, fine- to medium-grained, well-sorted sandstone; thickly crossbedded; locally contains minor lenses of mudstone, cherty limestone, or dolomite; cliff-former; eolian and minor playa deposits; approximate thickness 250–450 ft
Jk	Kayenta Formation (Lower Jurassic) —Reddish-orange to reddish-brown, fine- to medium-grained, crossbedded sandstone, and laminated sandy siltstone, interbedded with minor limestone and mudstone; forms ledges and steep slopes; largely fluvial deposits, locally includes overbank, lacustrine, sabkha, and eolian deposits; approximate thickness 200–260 ft
Jw	Wingate Sandstone (Lower Jurassic) —Reddish-pink to reddish-orange, very fine grained to fine-grained, crossbedded sandstone; forms cliffs; eolian deposits; approximate thickness 280–400 ft
	Chinle Formation (Upper Triassic) —Divided into two parts, each containing several members
Tcu	Upper part, undivided —Comprises Church Rock, Owl Rock, and Petrified Forest Members. Church Rock Member —Reddish-brown to reddish-orange siltstone, irregularly ripple laminated to thick bedded; interbedded with cross-stratified, fine- to coarse-grained sandstone; locally contains thin- to thick-bedded conglomerate and arkosic sandstone; fluvial and lacustrine deposits; approximate thickness 80–200 ft Owl Rock Member —Pale-red to pale-reddish-brown siltstone and mudstone; thin- to medium-bedded; interbedded with pale-red to light-greenish-gray, thin- to medium-bedded, cherty limestone; locally contains limestone breccia; lacustrine deposits; approximate thickness 120–200 ft Petrified Forest Member —Variable, fine-grained, arenaceous to arenaceous-bentonitic claystone interbedded with minor amounts of clayey siltstone and fine- to medium-grained sandstone; fluvial and lacustrine deposits; approximate thickness 50–200 ft
Tcd	Lower part undivided —Comprises Moss Back, Monitor Butte, and Shinarump Members. Moss Back Member —Yellowish-gray to pale-orange, thin- to thick-bedded, structureless to cross-stratified, fine- to medium-grained sandstone; locally contains lenses of pale-green claystone and siltstone and lenses of chert and limestone-pebble conglomerate; fluvial deposits; thickness ranges from 0 to 165 ft Monitor Butte Member —Variable, medium- to predominantly greenish-gray, micaceous, bentonitic mudstone, also contains fine-grained, grayish-green sandstone; locally contains limestone-pebble conglomerate; locally contains uranium and vanadium; fluvial, lacustrine-deltaic, and lacustrine deposits; thickness ranges from 0 to 265 ft Shinarump Member —Gray to yellowish-gray, medium- to thick-bedded, cross-stratified, fine-grained to conglomeratic sandstone; contains minor gray to red mudstone; locally contains uranium and vanadium; fluvial deposits; thickness ranges from 0 to 50 ft
Tm	Moenkopi Formation (Middle? to Lower Triassic) —Pale-red to reddish-brown, thin- to thick-bedded, very fine grained to fine-grained, crossbedded sandstone; also contains pale- to medium-brown, thin-bedded silty mudstone and limestone; locally contains brown to medium-brown, coarse-grained, lenticular conglomerate at base; marine, tidal flat, and lagoonal deposits; approximate thickness 300–500 ft
Pcw	Cutler Group (Lower Permian) —Divided into three units White Rim Sandstone —Light-gray to white, very fine grained to fine-grained sandstone, laminated to very thin bedded, crossbedded; forms cliffs; thin eastward and pinches out depositionally near Colorado River; marginal marine and eolian deposits; approximate thickness 35–250 ft
Pco	Organ Rock Formation —Moderate reddish-brown sandstone, siltstone, and mudstone; laminated to thin bedded; forms slopes with cliff at top; probable marginal marine deposits; approximate thickness 250–400 ft
Pcc	Cedar Mesa Sandstone —White to pale-reddish-brown sandstone; thickly cross-bedded; forms a cliff, marginal marine eolian deposits; approximate thickness 200–300 ft
Ph	Halgaito Formation (Lower Permian) —Reddish-brown to purple, arkosic sandstone, interbedded with red siltstones and conglomerates, and gray limestones; fluvial to marginal marine and marine deposits, forms ledges and slopes; approximate thickness 400–550 ft
IPh	Honaker Trail Formation (Upper and Middle Pennsylvanian) —Dark-gray, thick-bedded limestones interbedded with gray cherty limestones and red to gray shales and sandstones; forms ledges and slopes; marine to marginal marine deposits; approximate thickness 1,000–1,500 ft